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NOTICE OF ALLOWANCE AND FEE(S) DUE

25299

7590

02/18/2004

IBM CORPORATION PO BOX 12195 DEPT 9CCA, BLDG 002 RESEARCH TRIANGLE PARK, NC 27709 EXAMINER
SIEK, VUTHE

ART UNIT

PAPER NUMBER

DATE MAILED: 02/18/2004

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	10/016 346	12/10/2001	Charles Edward Kuhlmann	RPS920010125US1	6492

TITLE OF INVENTION: FIELD PROGRAMMABLE NETWORK PROCESSOR AND METHOD FOR CUSTOMIZING A NETWORK PROCESSOR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	05/18/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATEN <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHT THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPO PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM TH MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THE STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOV REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (O AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WIL BE REGARDED AS ABANDONED.

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I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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If the SMALL ENTITY is shown as NO:

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- B. If applicant claimed SMALL ENTITY status before, or is n claiming SMALL ENTITY status, check the box below and enclo the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) w your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)				napers. Each addition	Note: A certificate of mailing can only be used for domestic mailings of Fee(s) Transmittal. This certificate cannot be used for any other accompany papers. Each additional paper, such as an assignment or formal drawing, m have its own certificate of mailing or transmission.			
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IBM CORPORATION PO BOX 12195 DEPT 9CCA, BLDG 002 RESEARCH TRIANGLE PARK, NC 27709				I hereby certify that ti States Postal Service addressed to the Ma transmitted to the USI	Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the Un States Postal Service with sufficient postage for first class mail in an envel addressed to the Mail Stop ISSUE FEE address above, or being facsim transmitted to the USPTO, on the date indicated below.			
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SIEK, V	VUTHE	2825		716-016000	_			
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. The PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.								
3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)								
Please check the appropriate assignee category or categories (will not be printed on the patent);								
4a. The following fee(s) are		<u> </u>	. Payment of Fe		F 6 6 8			
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This collection of information is required by 37 CFR 1.311. The information is required to								

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

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10/016,346 12/10/2001		12/10/2001	Charles Edward Kuhlmann	RPS920010125US1	6492		
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IBM CORPORATION				SIEK, V	SIEK, VUTHE		
PO BOX 12195 DEPT 9CCA, BLDG 002			ART UNIT	PAPER NUMBER			
		E PARK, NC 27709		2825			
	•			DATE MAILED: 02/18/2004	4		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 117 day(s). If the issue fee is paid on the date that is three months after t mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a ha months) after the mailing date of this notice, the Patent Term Adjustment will be 117 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date th determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retriev (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

ML

	Application No.	Applicant(s)
		KUHLMANN ET AL.
Notice of Allowability	10/016,346 Examiner	Art Unit
	Vuthe Siek	2825
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	ars n the cover sheet with the county (OR REMAINS) CLOSED in this apportant communication GHTS. This application is subject to and MPEP 1308.	orrespondence address plication. If not included n will be mailed in due course. THIS
1. A This communication is responsive to communication on 11.	<u>/12/04</u> .	
2. \boxtimes The allowed claim(s) is/are <u>4,7 and 10-13</u> .		
3. $igotimes$ The drawings filed on <u>11 April 2002</u> are accepted by the Ex	kaminer.	
4. ☐ Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the priority documents have 4. ☐ Cortified copies of the priority documents have 4. ☐ Certified copies of the priority documents have 5. ☐ APPLICATION THE "MAILING DATE" of the priority of the priority of the subminished have be subminished by the priority of the subminished have be subminished by the priority of the prior	been received. been received in Application No cuments have been received in this of this communication to file a reply ENT of this application. itted. Note the attached EXAMINER as reason(s) why the oath or declara t be submitted. on's Patent Drawing Review (PTO- as Amendment / Comment or in the Comment or in the Comment of BIOLOGICAL MATERIAL resuments.	national stage application from the complying with the requirements S AMENDMENT or NOTICE OF ation is deficient. 948) attached Office action of ags in the front (not the back) of id). must be submitted. Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ⊠ Interview Summary Paper No./Mail Da 8), 7. ⊠ Examiner's Amendo	te <u>here in</u> .

Application/Control Number: 10/016,346

Art Unit: 2825

DETAILED ACTION

1. This office action is in response to application 10/016,346, and amendment filed on 11/12/2003. Claims 4, 7 and 10-13 remain pending in the application.

Examiner's Amendment

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Joseph A. Sawyer, Jr. (30,801) on 2/3/204.

The application has been amended as follows:

Claim 4, line 4, after "processor" insert --, wherein said at least one FPGA comprises high risk logic and said plurality of standard cells comprise common logic--; line 9, delete "cell" and insert --file--.

EXAMINER'S STATEMENT AS TO THE REASONS FOR ALLOWANCE

3. Claims 4, 7 and 10-13 are allowed over the prior art of record.

The following is an examiner's statement of reasons for allowance: the prior art of record does not teach or fairly suggest a network processor comprising a plurality of standard cells, said standard cells include common logic; a plurality of field programmable gate array (FPGA) cells, said FPGA cells include high risk logic; and a

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processor local bus (PLB) and two on-chip peripheral buses (OPBs) coupled to a portion of the standard cells and portion of the FPGA cells, wherein the FPGA cells coupled to the PLB comprise an accelerator function and a PLB master/slave function, wherein the FPGA cells coupled to one the two OPBs are media interfaces; wherein the FPGA cells coupled to the other of the two OPBs are a GPIO processor function and an OPB master/slave function; wherein each of the plurality of cells can provide a specific function based upon field programming techniques to allow for customization of the network processor. In addition, the prior art does not teach or fairly suggest a method for customizing a network processor as recited in the claims, specifically providing a custom logic file for a vendor of the network processor by a customer of the network processor, wherein a verification module is also provided within the custom logic file: programming the at least one FPGA cell by the vendor based upon the custom logic file in order to provide a customized network processor and verifying the customized network processor based upon the verification module supplied within the custom logic file.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vuthe Siek whose telephone number is (571) 272-1906. The examiner can normally be reached on M-F (6:30-4:00) 2nd Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Smith can be reached on (571) 272-1907. The fax phone numbers for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

Vuthe Siek Primary Examiner February 5, 2004

PRIMARY EXAMINED